

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 02/18/98

Date Received: 02/06/98

Project: Metro Self Monitor, PO #M59989

Date Extracted: 02/17/98

Date Analyzed: 02/17/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as  $\mu\text{g/L}$  (ppb)

<u>Sample ID</u>	<u>M59989</u>	<u>Method Blank</u>
Analyte:		
Chromium	0.69	<0.05
Copper	0.77	<0.05
Nickel	0.52	<0.05
Zinc	0.11	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 02/18/98

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Project: Metro Self Monitor, PO #M59989

### QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 802031-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.69	0.70	1	0-20
Copper	mg/L (ppm)	0.77	0.83	8	0-20
Nickel	mg/L (ppm)	0.52	0.46	12	0-20
Zinc	mg/L (ppm)	0.11	0.08	32a	0-20

Laboratory Code: 802031-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.69	86	86	80-120	0
Copper	mg/L (ppm)	5	0.77	97	97	80-120	0
Nickel	mg/L (ppm)	10	0.52	87	81	80-120	7
Zinc	mg/L (ppm)	5	0.11	98	107	80-120	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	102	101	80-120	1
Copper	mg/L (ppm)	5	107	105	80-120	2
Nickel	mg/L (ppm)	10	104	101	80-120	3
Zinc	mg/L (ppm)	5	108	106	80-120	2

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

PJ# 802031 KJ AI

02-06-98

*Send Report To:*

Company Alaskan Copper Works

Contact Gerald Thompson

Address 628 Highland 80

City, State, Zip Seattle WA

Phone # (206) 382-8379

FAX # (206) 382-4709

Date 2-6-98

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7238

metro self monitor

m 55989

SAMPLERS/ (signature)

### PROJECT LOCATION

3200 8<sup>th</sup> Ave S

REMARKS

### SAMPLE DISPOSAL INFORMATION

**Dispose after 30 days**  
**Return Samples**  
**Call for Instructions**

SIGNATURE

**PRINT NAME**

**COMPANY**

Date \_\_\_\_\_

Time

Relinquished by:

Genard A. Thompson

Acw

85/92

1:50 PM

Received by \_\_\_\_\_

MANUEL MARTI

F & B, I

2/6/98

1:30 PM

Relinquished by:

Received by:

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

February 18, 1998

**DUPLICATE COPY**  
**INVOICE #98ACU0218-2**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M59989: Results of testing requested  
by Gerry Thompson for material submitted on February 6, 1998.

1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due .....

\$ 65.00

FEDERAL TAX ID (b) (6)

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
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Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

**February 18, 1998**

**Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134**

**Dear Mr. Thompson:**

**Included are the results from the testing of material submitted on February 6, 1998  
from your Metro Self Monitor, PO #M59989 project.**

**We appreciate this opportunity to be of service to you and hope you will call if you  
should have any questions.**

**Sincerely,**

**FRIEDMAN & BRUYA, INC.**



**Kurt Johnson  
Chemist**

**Enclosures  
ACU0218R.DOC**